

Speaker: Colin Guillarmou, Université Paris-Saclay

Title: Probabilistic construction of CFTs

Abstract:

I will explain the construction of the Liouville CFT from probability and how it can be resolved through a rigorous proof of the conformal bootstrap by combining spectral methods and the framework introduced by Segal.

This leads to the global construction of the conformal blocks and a factorization formula for the correlation functions.

I will also mention in parallel the case of the compactified imaginary Liouville CFT from probability, which is a CFT with central charge <1 and discrete spectrum.